

Target DNA Detection and Quantification

- (1) Extension with dTTP, dGTP, dCTP, dCTP, either with ddATP or without dATP

(SEQ ID NO:2)
 5' TGATCAGCAGGCTGAAATCGTCGTGGATTGCAACGACGCCGACGATTCTCGTCCTTTAAAGCGGATAGCAT 3'
 3'gtcgccg Primer 2 5' 3'cgctgctggtgct Primer 1
 (SEQ ID NO:3)

- (2) Extension with dATP, dGTP, dGTP, dCTP, either with ddTTP or without dTTP

5' TGATCAGCAGTGTGCTGAAATCGTCGTGGATTGCAACGACGCCGACGATTCTCGTCCTTTAAAGCGGATAGCAT 3'
 3'agcagcacc Primer 4 5' 3'aagagcaggaaa Primer 3
 (SEQ ID NO:4)

- (3) Extension with dATP, dGTP, dGTP, dCTP, either with ddCTP or without dCTP

5' TGATCAGCAGTGTGCTGAAATCGTCGTGGATTGCAACGACGCCGACGATTCTCGTCCTTTAAAGCGGATAGCAT 3'
 3'ttcag Primer 6 5' 3'agtaaatc Primer 5

Line represents primer sequence. Small letters a, g, c, and t are bases extended from the primer, some of which are labeled with a detectable marker. u and t are used interchangeably.

Figure 1

Target RNA Detection and Quantification

(1) Extension with dTTP, dGTP, dCTP, either with ddATP or without dATP

(SEQ ID NO:5)

5' UGAUCAGCAGGCUUGAAUUCGUGGUAUGCAACGACGCCGACGAUUCUGUCCUUUAAGGCGAUAGCAU 3'
 3'gtcgtccg Primer 2 5' 3'cgttgctgaggctgct Primer 1

(2) Extension with dATP, dGTP, dCTP, either with ddTTP or without dTTP

5' UGAUCAGCAGGCUUGAAUUCGUGGUAUGCAACGACGCCGACGAUUCUGUCCUUUAAGGCGAUAGCAU 3'
 3'agcagcacc Primer 4 3'aagagcaggaaa 5' Primer 3

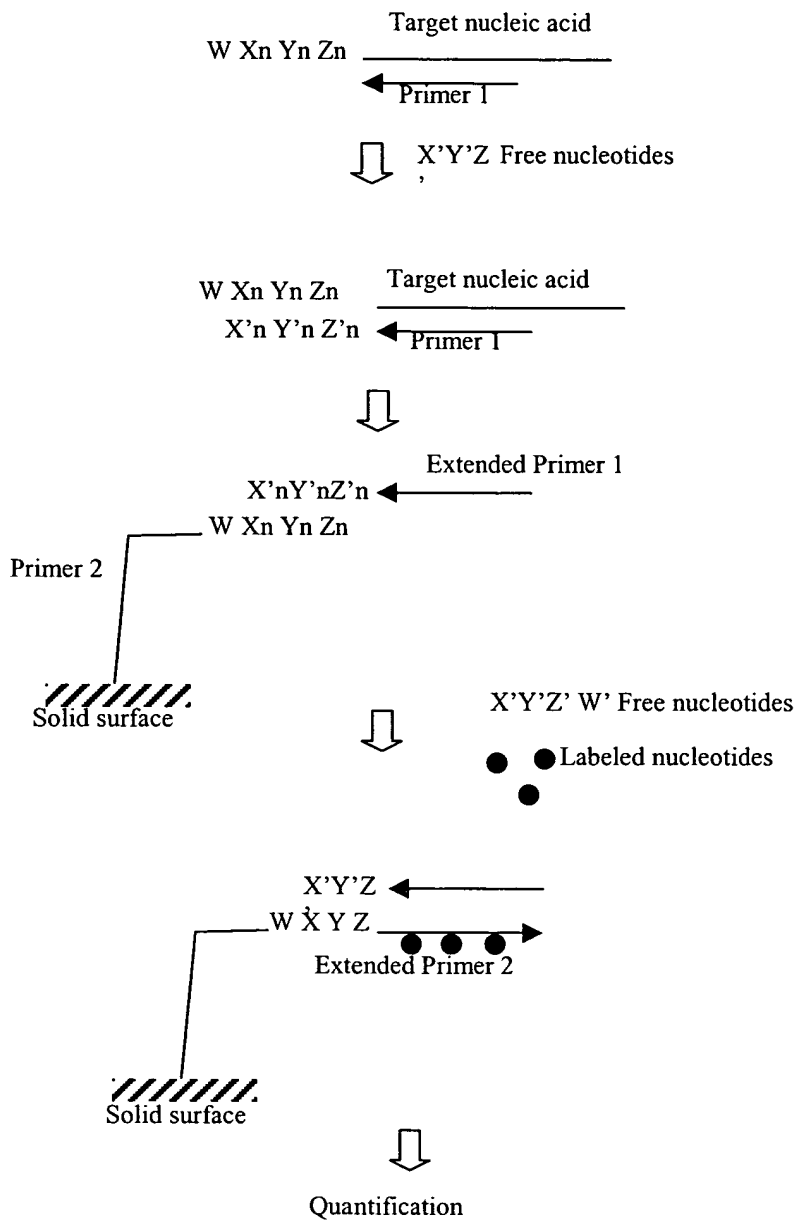
(3) Extension with dTTP, dGTP, dATP, either with ddCTP or without dCTP

5' UGAUCAGCAGGCUUGAAUUCGUGGUAUGCAACGACGCCGACGAUUCUGUCCUUUAAGGCGAUAGCAU 3'
 3'tttag Primer 6 3'agtaaat 5' Primer 5

Line represents primer sequence. Small letters a, g, c, and t are bases extended from the primer, some of which are labeled with a detectable marker. u and t are used interchangeably.

Figure 2

Figure 3



X = 1 st type of nucleotide	X' = nucleotide complementary to X
Y = 2 nd type of nucleotide	Y' = nucleotide complementary to Y
Z = 3 rd type of nucleotide	Z' = nucleotide complementary to Z
W = 4 th type of nucleotide	W' = nucleotide complementary to W
n > 1	

Labeled nucleotide could be A, G, C or T

Figure 4

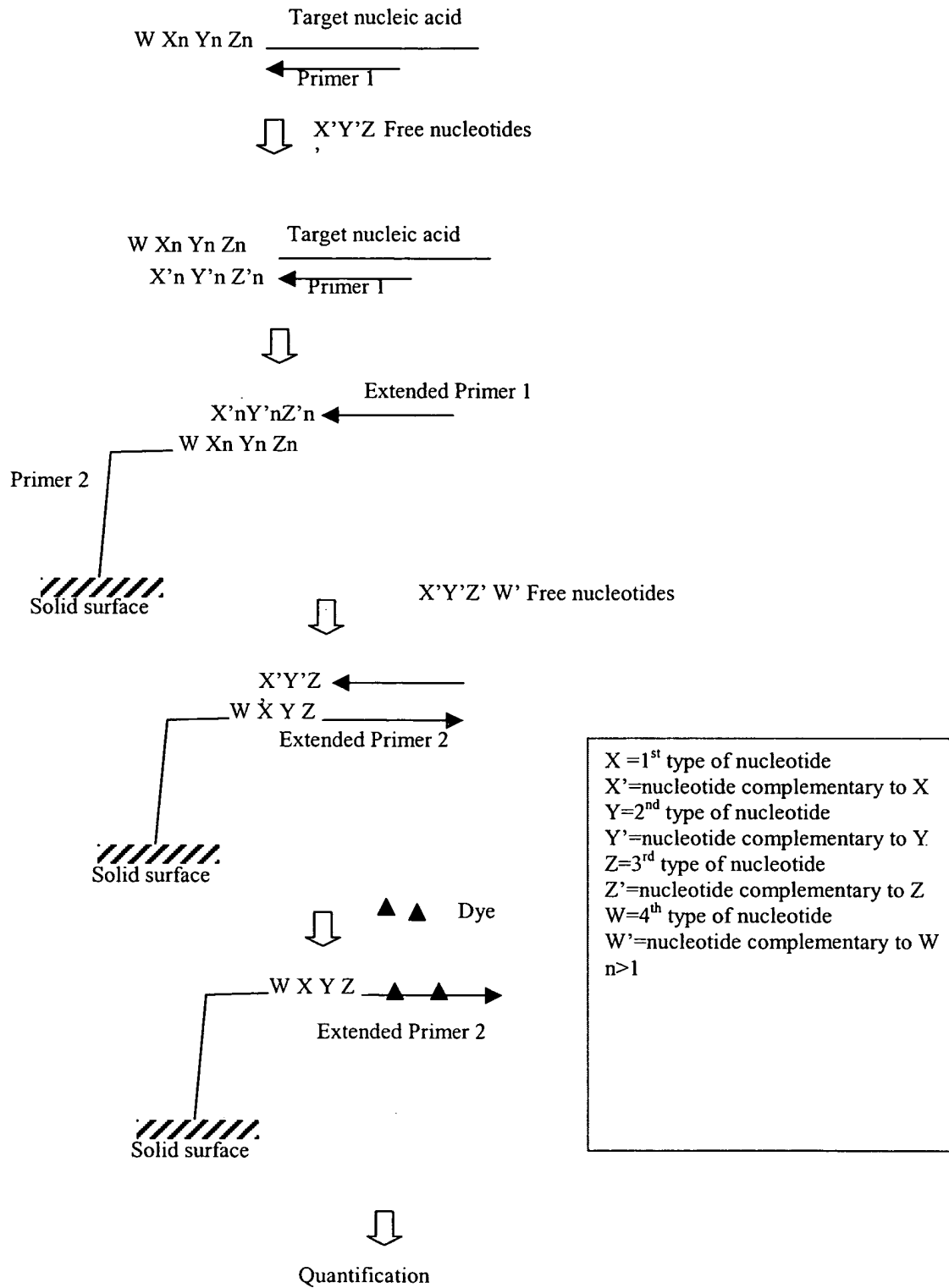


Figure 5

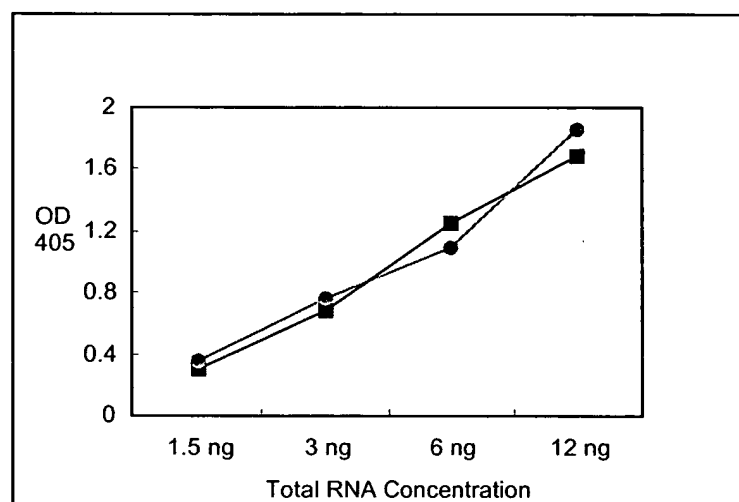


Figure 6

Detection of B-raf and P53 gene expression in breast cancer tissue

